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U. S. DEPARTMENT OF AGRICULTURE,
OFFICE OF EXPERIMENT STATIONS.

STATISTICS

OF THE

Land-Grant Colleges and Agricultural Experiment Stations

IN THE

UNITED STATES

FOR

THE YEAR ENDING JUNE 30, 1898.



WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1899.

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LETTER OF TRANSMITTAL.

U. S. DEPARTMENT OF AGRICULTURE,
OFFICE OF EXPERIMENT STATIONS,
Washington, D. C., March 15, 1899.

SIR: I have the honor to transmit herewith some statistics of the land-grant colleges and agricultural experiment stations for the year 1898, compiled under my direction by Miss S. L. Sommers, and to recommend their publication as Bulletin No. 64 of this Office.

Respectfully,

A. C. TRUE,
Director.

Hon. JAMES WILSON,
Secretary of Agriculture.

CONTENTS.

	Page.
List of abbreviations.....	6
Summary of statistics of land-grant colleges.....	7
Summary of statistics of agricultural experiment stations.....	8
Tabulated statistics of the land-grant colleges and universities.....	10
Table 1.—Land-grant institutions and their courses of study	10
Table 2.—General statistics	15
Table 3.—Students, by classes and courses.....	18
Table 4.—Value of permanent funds and equipment.....	20
Table 5.—Revenue for year ending June 30, 1898.....	22
Table 6.—Additions to equipment in 1898.....	24
Table 7.—Disbursements from the United States Treasury to the States and Territories of the appropriations under the act of Con- gress approved August 30, 1890.....	26
Tabulated statistics of the agricultural experiment stations.....	28
Table 8.—Stations and general statistics.....	28
Table 9.—Revenue and additions to equipment in 1898.....	34
Table 10.—Expenditures from the United States appropriation for the year ending June 30, 1898.....	36
Table 11.—Disbursements from the United States Treasury to the States and Territories of the appropriations under the act of Con- gress of March 2, 1887.....	38

LIST OF ABBREVIATIONS.

Agr., Agriculture, Agricultural.

Archi., Architecture.

Biol., Biology, Biological.

Bot., Botany, Botanical.

Chem., Chemistry, Chemical.

Clas., Classical.

Elect., Electrical, Electricity.

Engin., Engineer, Engineering.

Engl., English.

Ent., Entomology.

For., Forestry.

Geol., Geology, Geological.

Hist., History.

Hort., Horticulture.

Husb., Husbandry.

Indus., Industrial, Industries, Industry.

Irrig., Irrigation.

Lang., Language, Languages.

Lat., Latin.

Lit., Literature.

Math., Mathematics, Mathematical.

Mech., Mechanics, Mechanical.

Med., Medical, Medicine.

Metal., Metallurgy.

Pedag., Pedagogics, Pedagogy.

Phar., Pharmacy, Pharmaceutical.

Philos., Philosophy.

Phys., Physics, Physical.

Prep., Preparatory.

Sci., Science, Sciences, Scientific.

Sten., Stenography.

Tech., Technical.

Veg., Vegetable.

Vet., Veterinary, Veterinarian.

Zool., Zoology, Zoologist.

STATISTICS OF LAND-GRANT COLLEGES AND AGRICULTURAL EXPERIMENT STATIONS, 1898.

The following statistical statements relate to the institutions established under the acts of Congress of July 2, 1862, and August 30, 1890, most of which maintain courses of instruction in agriculture, and to the agricultural experiment stations which, with a few exceptions, are organized under the act of Congress of March 2, 1887, and are conducted as departments of the institutions receiving the benefits of the land-grant act of July 2, 1862. The statistics included in this circular have been compiled in part from replies to a circular of inquiry sent out from this Office and in part from the annual reports of the presidents of these institutions made on the schedules prescribed by the Commissioner of Education. Tables showing the annual disbursements on account of the acts of Congress of March 2, 1887, and August 30, 1890, prepared in the Departments of the Treasury and the Interior are also included. Owing to the complex organization of many of the institutions it is impracticable to give exactly comparable statistics in all cases, and in some instances the data furnished are incomplete.

SUMMARY OF STATISTICS OF LAND-GRANT COLLEGES.

Educational institutions receiving the benefits of the acts of Congress of July 1, 1862, and August 30, 1890, are now in operation in all the States and Territories except Alaska. The total number of these institutions is 64, of which 61 maintain courses of instruction in agriculture. The aggregate value of the permanent funds and equipment of the land-grant colleges and universities in 1898 is estimated to be as follows: Land grant fund of 1862, \$10,170,549.99; other land-grant funds, \$1,204,234.44; other permanent funds, \$11,816,258.16; land grant of 1862 still unsold, \$3,838,219.48; farms and grounds owned by the institutions, \$6,046,500.16; buildings, \$15,185,476.95; apparatus, \$1,916,227.85; machinery, \$1,383,137.14; libraries, \$1,634,190.25; miscellaneous equipment, \$1,765,243.19; total, \$53,632,852.25. The income of these institutions in 1898, exclusive of the funds received from the United States for agricultural experiment stations (\$720,000), was as follows: Interest on land grant of 1862, \$645,546.28; interest on other funds, \$578,067.38; United States appropriation under act of 1890, \$1,108,610.38; State appropriation (annual or regular), \$1,827,924.51; State appropriation (occasional), \$533,794.98; tuition fees, \$480,847.32;

incidental fees, \$146,458.72; miscellaneous, \$679,130.93; total, \$6,008,379.20. The value of the additions to the permanent endowment and equipment of these institutions in 1898 is estimated as follows: Permanent endowment, \$1,424,277.64; buildings, \$851,481.75; library, \$105,661.11; apparatus, \$132,111.90; machinery, \$123,477.63; miscellaneous, \$167,336.53; total, \$2,796,350.97. The number of persons in the faculties of the colleges of agriculture and mechanic arts were as follows: For preparatory classes, 254; for collegiate and special classes, 1,564; total, 1,722. In the other departments the faculties aggregated 889, making a grand total of 2,611 persons in the faculties of the land-grant institutions. The students in 1898 were as follows: (1) By classes—preparatory, 6,593; freshmen, 6,016; sophomores, 4,202; juniors, 3,216; seniors, 2,506; special, 4,526; post graduate, 878; total, 31,658. (2) By courses—agriculture, 4,181; mechanical engineering, 2,797; civil engineering, 1,504; electrical engineering, 1,698; mining engineering, 554; architecture, 411; household economy, 1,298; veterinary science, 449; military tactics, 8,952. The graduates in 1898 were 2,328, and since the organization of these institutions 34,168. The average age of graduates in 1898 was 22.1 years. The total number of volumes in the libraries was 1,221,226. The total number of acres of land granted to the States under the act of 1862 was 9,559,241, of which 1,241,686 are still unsold.

SUMMARY OF STATISTICS OF THE STATIONS.

Agricultural experiment stations are now in operation under the act of Congress of March 2, 1887, in all the States and Territories. Agricultural experiments have been begun in Alaska with the aid of national funds, and an experiment station is in operation in Hawaii under private auspices. In each of the States of Alabama, Connecticut, New Jersey, and New York a separate station is maintained wholly or in part by State funds, and in Louisiana a station for sugar experiments is maintained partly by funds contributed by sugar planters. Excluding the branch stations established in several States, the total number of stations in the United States is 54. Of these 52 receive the appropriation provided for in the act of Congress above mentioned. The total income of the stations during 1898 was \$1,201,921.17, of which \$720,000.00 was received from the National Government, the remainder, \$481,921.17, coming from the following sources: State governments, \$341,097.94; individuals and communities, \$177.20; fees for analyses of fertilizers, \$54,977.30; sales of farm products, \$65,356.25; miscellaneous, \$20,312.48. In addition to this the Office of Experiment Stations had an appropriation of \$35,000 for the past fiscal year, including \$5,000 for the Alaskan investigation. The value of additions to equipment of the stations in 1898 is estimated as follows: Buildings, \$109,851.65; libraries, \$11,700.73; apparatus, \$19,195.43; farm implements, \$10,800.27; live stock, \$13,151.33; miscellaneous, \$11,972.97; total, \$176,469.41.

The stations employ 669 persons in the work of administration and inquiry. The number of officers engaged in the different lines of work is as follows: Directors, 75; chemists, 148; agriculturists, 71; experts in animal husbandry, 10; horticulturists, 77; farm foremen, 29; dairymen, 21; botanists, 50; entomologists, 46; veterinarians, 26; meteorologists, 20; biologists, 11; physicists, 11; geologists, 6; mycologists and bacteriologists, 19; irrigation engineers, 7; in charge of substations, 15; secretaries and treasurers, 23; librarians, 10, and clerks, 46. There are also 21 persons classified under the head of "miscellaneous," including superintendents of gardens, grounds, and buildings, apiarists, herdsmen, etc. Three hundred and five station officers do more or less teaching in the colleges with which the stations are connected.

During 1898 the stations published 406 annual reports and bulletins. Besides regular reports and bulletins, a number of the stations issued press bulletins, which were widely reproduced in the agricultural and county papers. The mailing lists of the stations now aggregate half a million names. Correspondence with farmers steadily increases and calls upon station officers for public addresses at institutes and other meetings of farmers are more numerous each year. The station officers continue to contribute many articles on special topics to agricultural and scientific journals. A number of books on agricultural subjects, written by station officers, have been published during the past year.

TABULATED STATISTICS OF THE LAND-GRANT COLLEGES AND UNIVERSITIES.

Unless otherwise specified, the statistics reported in the tables are for the institutions as designated in the list given below :

TABLE 1.—*Institutions established under the land-grant act of July 2, 1862, and their courses of study.*

[All of the institutions in this list, except those marked with an asterisk (*), maintain courses of instruction in agriculture.]

State or Territory.	Name of institution.	Location.	President.	Collegiate courses of study (undergraduate).	
				Four-year courses and degrees.	Short courses.
Alabama	State Agricultural and Mechanical College (Alabama Polytechnical Institute).	Auburn	W. L. Broun, M. A., LL. D. .	Chem. and agr., civil engin., elect. and mech. engin., phar., general course (B. S.).	Agr., mech. arts (2 yrs.).
Arizona	State Normal and Industrial School.	Normal	W. H. Council, Ph. D.	Sci. (B. S.), agr. (B. A. S.), mech. (B. M. S.).	
Arkansas	University of Arizona	Tucson	M. M. Parker, M. A.	Lit. and sci., engin. and mining, agr. (B. S.).	Mining (2 yrs.).
Arkansas	Arkansas Industrial University.	Fayetteville	J. L. Buchanan, M. A., LL. D. .	Mech. engin. (B. M. E.), elect. engin. (B. E. E.), civil engin. (B. C. E.), sci. (B. S.), liberal arts (B. A.).	Mech. engin., elect. engin., normal course (2 yrs.).
California	*Branch Normal College.....	Pine Bluff	J. C. Corbin	Collegiate course (B. A.)	Normal (Licentiate of Instruction).
California	University of California.....	Berkeley	M. Kellogg, LL. D.	Letters (B. A.), social sci. (B. L.), natural sci., agr., mech., civil engin., chem. (B. S.), med. (M. D.), commerce.	Law (3 yrs., LL. B.), dentistry (3 yrs., D. D. S.), phar. (3 yrs., Ph. G.), vet. sci. (3 yrs., D. V. S.).
Colorado.....	The State Agricultural College of Colorado.	Fort Collins	A. Ellis, M. A., Ph. D., LL. D. .	Agr., mech. engin., civil and irrig. engin., ladies (B. S.).	Commercial (3 yrs., diploma).
Connecticut	Storrs Agricultural College.....	Storrs	G. W. Flint, M. A.	(B. S.), lat.-sci. (B. A.), agr., general sci. (B. S.), civil engin. (B. C. E.), mech. engin. (B. M. E.), elect. engin. (B. E. E.).	Agr. (2 yrs., and winter course 3 months).
Delaware	Delaware College	Newark	G. A. Harter, M. A., Ph. D. .	Chas., lat.-sci. (B. A.), agr., general sci. (B. S.), civil engin. (B. C. E.), mech. engin. (B. M. E.), elect. engin. (B. E. E.).	Normal (certificate).
Florida	State College for Colored Students.	Dover	W. C. Jason, M. A., B. D.	Chas. (B. A.), sci. (B. S.), agr. (B. A. agr.), engin. (B. E.).	Business, sten. and typewriting (1 yr., certificate).
Florida	Florida State Normal and Industrial College.	Lake City	W. F. Vocum, M. A., D. D. .	Agr., mech. (B. S.), lat.-sci. (B. A.)	Normal (4 yrs.).
Georgia.....	Georgia State College of Agriculture and Mechanic Arts.	Tallahassee.....	T. De S. Tucker, M. A.	(B. S.), (B. E.)	(B. Agr., 3 yrs.); agr., winter course (3 months).
Georgia.....	Georgia State Industrial College.	Athens	H. C. White, Ph. D.	(B. A.), normal (certificate)	
		College	R. R. Wright		

Idaho.....	University of Idaho.....	Moscow.....	J. P. Blanton, M. A., LL. D.....	Clas. (B. A.), philos. (Ph. B.), sci. (B. S.), civil engin. (B. C. E.), mining engin. (B. M. E.), agr. (B. Agr.). In colleges of lit. and arts (B. A.), en- gin. (B. S.), sci. (B. S.), agr. (B. S.). Mech. engin. (B. S. M. E.), civil engin. (B. S. C. E.), elect. engin. (B. S. E. E.), agr. (B. S. Agr.), sci. (B. S.), plur. (B. S. Ph.). Agr. (B. Agr.), mech. engin. (B. M. E.), civil engin. (B. C. E.), elec. engin. (B. S. E. E.), mining engin. (B. S. M. E.), sci. (B. S.), philos. for women (B. Ph.). Agr. (B. S.) engin., general course, household economics.	Agr. (2 yrs.), winter course (2 months), phar. (2 yrs., Ph. G.).
Illinois.....	University of Illinois.....	Urbana.....	A. S. Draper, LL. D.....	Clas. (B. A.), Lat.-sci. (B. Ph.), sci., agr., chem., prep. med., phar. (B. S.), civil engin. (B. C. E.), mech. engin., elect. engin. (B. M. E.).	Vet. sci. (3 yrs., D. V. M.), agr., and dairying.
Indiana.....	Purdue University.....	Lafayette.....	J. H. Smart, M. A., LL. D.....	Clas. (B. A.), mech. engin. (B. M. E.), civil engin. (B. C. E.), elect. engin. (B. S. Agr.).	Dairy (12 weeks).
Iowa.....	Iowa State College of Agri- culture and Mechanic Arts.	Ames.....	W. M. Beardshear, M. A., LL. D.....	Clas. (B. A.), mech. engin. (B. M. E.), civil engin. (B. C. E.), elec. engin. (B. S. E. E.), mining engin. (B. S. M. E.), sci. (B. S.), philos. for women (B. Ph.). Agr. (B. S.) engin., general course, household economics.	Agr. (1 yr.), 3 normal.
Kansas.....	Kansas State Agricultural College.	Manhattan.....	T. E. Will, M. A.....	Normal, agr., mech., domestic econ. (3 yrs.).	
Kentucky.....	Agricultural and Mechanical College of Kentucky.	Lexington.....	J. K. Patterson, Ph. D., LL. D.....	Clas. (B. A.), Lat.-sci. (B. Ph.), sci., agr., chem., prep. med., phar. (B. S.), civil engin. (B. C. E.), mech. engin., elect. engin. (B. M. E.).	
Louisiana.....	State Normal School for Col- ored Persons.	Frankfort.....	J. E. Givens, B. A.....	Clas. (B. A.), Lat.-sci. (B. Ph.), sci., agr., chem., prep. med., phar. (B. S.), civil engin. (B. C. E.), mech. engin., elect. engin. (B. M. E.).	
	Louisiana State University and Agricultural and Me- chanical College.	Baton Rouge.....	T. D. Boyd, M. A., LL. D.....	Clas. (B. A.), mech. engin. (B. M. E.), civil engin. (B. C. E.), elect. engin. (B. S. Agr.).	
Maine.....	Southern University and Ag- ricultural and Mechanical College.	New Orleans.....	H. A. Hill.....	Clas. (B. A.), mech. engin. (B. M. E.), civil engin. (B. C. E.), elect. engin. (B. S. Agr.).	
	The University of Maine.....	Orono.....	A. W. Harris, D. Sc.....	Clas. (B. A.), Lat.-sci. (B. Ph.), sci., agr., chem., prep. med., phar. (B. S.), civil engin. (B. C. E.), mech. engin., elect. engin. (B. M. E.).	
Maryland.....	Maryland Agricultural Col- lege.	College Park.....	R. W. Silvester.....	Clas. (B. A.), mech. engin. (B. M. E.), civil engin. (B. C. E.), elect. engin. (B. S. Agr.).	
Massachusetts.....	Massachusetts Agricultural College.	Amherst.....	H. H. Goodell, LL. D.....	Clas. (B. A.), mech. engin. (B. M. E.), civil engin. (B. C. E.), elect. engin. (B. S. Agr.).	
	* Massachusetts Institute of Technology.	Boston.....	J. M. Crafts, B. S.....	Clas. (B. A.), mech. engin. (B. M. E.), civil engin. (B. C. E.), elect. engin. (B. S. Agr.).	
Michigan.....	Michigan State Agricultural College.	Agricultural Col- lege.	J. L. Snyder, M. A., Ph. D.....	Clas. (B. A.), mech. engin. (B. M. E.), civil engin. (B. C. E.), elect. engin. (B. S. Agr.).	
Minnesota.....	The University of Minnesota.	Minneapolis.....	C. Northrop, LL. D.....	Clas. (B. A.), mech. engin. (B. M. E.), civil engin. (B. C. E.), elect. engin. (B. S. Agr.).	

Agr. (winter courses 11 weeks each), chem., bot., ent. (3 yrs. Ph. D.).

Cheese making (4 weeks), home dairying, creamery manage- ment and butter making, dairy husb., fruit culture, floriculture and winter veg. growing (6 weeks each).

TABLE 1.—*Institutions established under the land-grant act of July 2, 1862, and their courses of study—Continued.*

[All of the institutions in this list, except those marked with an asterisk (*), maintain courses in agriculture.]

State or Territory.	Name of institution.	Location.	President.	Collegiate courses of study (undergraduate.	
				Four-year courses and degrees.	Short courses.
Mississippi.....	Mississippi Agricultural and Mechanical College.	Agricultural College, Westside.....	S. D. Lee, LL. D.....	Agr., mech. (B. S.).....	Agr., mech. arts, vet. sci. (2 yrs. each); agr. (10 weeks).
	Alcorn Agricultural and Mechanical College.	Westside.....	Rev. E. H. Triplett.....	Scientific (B. S.).....	Business, carpentry, agr., shoemaking, blacksmithing.
Missouri.....	School of Agriculture and Engineering of the University of Missouri.	Columbia.....	R. H. Jesse, LL. D.....	Agr. (B. Agr.), civil engin. (B. S. C. E.), mech. engin., mining engin. (B. S. M. E.), elect. engin. (B. S. E. E.), sanitary engin., chem., metal. (B. S.).	Surveying, agr. (2 yrs., certificate); agr., hort. (12 weeks each).
	* School of Mines and Metallurgy of the University of Missouri.	Rolla.....	G. E. Ladd, Ph. D.....	Mining engin., civil engin., chem. and metal., general sci. (B. S.).	Chem. and assaying, mining, surveying, elect. (2 yrs. each).
Montana.....	Lincoln Institute.....	Jefferson City.....	J. H. Jackson.....	Collegiate, normal.....	
	The Montana College of Agriculture and Mechanic Arts.	Bozeman.....	J. Reid, B. A.....	General sci., home sci. (B. S.), agr. (B. S. Agr.), chem. (B. A. C.), mech. engin. (B. M. E.), elect. engin. (B. E. E.).	
Nebraska.....	Industrial College of the University of Nebraska.	Lincoln.....	G. E. MacLean, Ph. D., LL. D.....	Agr., hndl., chem.-phys., civil engin., elect. engin., municipal engin., steam engin., general sci., math.-phys. (B. S.).	Agr. (3 yrs.), medicine, mech. arts, domestic sci. (2 yrs. each), sugar (1 yr.).
Nevada.....	Nevada State University.....	Reno.....	J. E. Snubbs, M. A., D. D., LL. D.....	Liberal arts (B. A.), mining, agr., mech. engin., civil engin. (B. S.), pedag. (B. S. E.).	
New Hampshire....	The New Hampshire College of Agriculture and the Mechanic Arts.	Durham.....	C. S. Murkland, M. A., Ph. D.....	Agr., hndl., chem., mech. engin., elect., tech. chem., general (B. S.).	Agr. (2 yrs.); agr. (winter course 4 weeks) and nonresident course; dairying (4 weeks).
New Jersey.....	Rutgers Scientific School (The New Jersey State College for the Benefit of Agriculture and the Mechanic Arts).	New Brunswick.....	Austin Scott, Ph. D., LL. D.....	Agr., civil engin. and mech., chem., elect., biol. (B. S.).	
New Mexico.....	The New Mexico College of Agriculture and Mechanic Arts.	Mesilla Park.....	C. T. Jordan, M. A.....	Agr., mech. engin., civil engin., sci. (B. S.).	Sten., typewriting, bookkeeping (1 yr. each, certificate).
New York.....	Cornell University.....	Ithaca.....	J. G. Schurman, M. A., D. Sc., LL. D.....	Arts (B. A.), sci. (B. S.), philos. (Ph. B.), letters (B. L.), civil engin. (C. E.), mech. engin. (M. E.), elect. engin. (E. E.), archi. (B. Arch.), agr. (B. S. A.).	Vet. (3 yrs., D. V. M.), law (2 yrs., LL. B.), med. prep. (2 yrs.), agr. (winter course, 1 term).
North Carolina.....	The North Carolina College of Agriculture and Mechanic Arts.	West Raleigh.....	A. Q. Holladay, LL. D.....	Agr., sci., engin. (B. S.).....	Agr. (winter course, 3 months).

North Dakota	The Agricultural and Mechanical College for the Colored Race.	Greensboro	J. B. Dudley, M. A.	Agr., mech. (B. S.)	Agr. (2 yrs., no degree), farm school (3 months). Agr., ceramics, domestic economy, indus., arts, mining, phar. (2 yrs. each), archit., law, journalism, med. (3 yrs. each), dairying (3 months).
Ohio	Ohio State University	Agricultural College, Columbus	J. H. Worst	Agr., sci., mech. (B. S.)	Agr., ceramics, domestic economy, indus., arts, mining, phar. (2 yrs. each), archit., law, journalism, med. (3 yrs. each), dairying (3 months).
Oklahoma	Oklahoma Agricultural and Mechanical College.	Stillwater	G. E. Morrow, M. A.	Agr., general sci. (B. S.)	Farmers' (4 weeks).
Oregon	Oregon State Agricultural College.	Corvallis	T. M. Gatch, M. A., Ph. D.	Agr., mech., arts, household sci., phar. (B. S.)	Chem., mech., mining (2 yrs. each), agr., mining (12 weeks each), dairy, creamerymen's (6 weeks each), Chautauqua. Poultry school (4 weeks).
Pennsylvania	The Pennsylvania State College.	State College	G. W. Atherton, LL. D.	Class. (B. A.), general sci., Lat.-sci., philos., agr., biol., chem., civil engin., elect. engin., math., mech. engin., mining engin., phys. (B. S.).	Phar. (2 yrs., Ph. C.).
Rhode Island	Rhode Island College of Agriculture and Mechanic Arts.	Kingston	J. H. Washburn, Ph. D.	Agr., mech. engin., phys., math., chem., biol., med. (B. S.)	Ph. G. (2 yrs.).
South Carolina	Clemson Agricultural College.	Clemson College	H. S. Hartzog	Agr., mech. textile (B. S.)	
South Dakota	The Colored Normal, Industrial, Agricultural, and Mechanical College of South Carolina.	Orangeburg	T. E. Miller, M. A.	Regular course (B. A.), mech. (B. S.), agr. (B. Agr.).	
South Dakota	South Dakota Agricultural College.	Brookings	J. W. Heston, Ph. D., LL. D.	Agr., domestic sci., mech. arts (B. S.)	
Tennessee	University of Tennessee	Knoxville	C. W. Dabney, Ph. D., LL. D.	Agr. science and biol., military sci. and Engl., chem., general sci. (B. S.), clas., lit. and hist. (B. A.), civil engin. (B. S. C. E.), mech. engin. (B. S. M. E.), elect. engin. (B. S. E. E.), phar. (B. S. Ph. C.).	
Texas	State Agricultural and Mechanical College of Texas.	College Station	L. L. Foster	Agr., hort., mech., civil engin. (B. S.)	
Utah	Prairie View State Normal School.	Prairieview	L. C. Anderson, M. A.	Agr., civil engin., mech. engin., domestic arts, commercial, general sci. (B. S.)	Agr., domestic arts, commercial (2 yrs. each), mech. arts (3 yrs.).
Utah	The Agricultural College of Utah.	Logan	J. M. Tanner	Dairy (4 weeks).	
Vermont	University of Vermont and State Agricultural College.	Burlington	M. H. Buckham, D. D.	Class. (B. A.), lit. sci. (Ph. B.), civil and sanitary engin., elect. engin., mech. engin., chem., agr. (B. S.).	Agr., mech. (2 yrs., certificate).
Virginia	Virginia Polytechnic Institute (State Agricultural and Mechanical College).	Blacksburg	J. M. McBryde, Ph. D., LL. D.	Agr., hort., applied chem., general sci., civil engin., mech. engin., elect. engin. (B. S.).	Graded school, Indian prep., Engl. academic (3 yrs.), agr. (1 and 3 yrs.), agr. (summer), 6 indus. (3 yrs. each).
Virginia	The Hampton Normal and Agricultural Institute.	Hampton	H. B. Frissell, D. D.		

TABLE 1.—*Institutions established under the land-grant act of July 2, 1862, and their courses of study*—Continued.

[All of the institutions in this list, except those marked with an asterisk (*), maintain courses of instruction in agriculture.]

State or Territory.	Name of institution.	Location.	President.	Collegiate courses of study (undergraduate).	
				Four-year courses and degrees.	Short courses.
Washington	Washington Agricultural College and School of Science.	Pullman	E. A. Bryan, M. A.	Math. and civil engin., chem., bot. and zool., agr., hort., economic sci. and hist., mech. engin., mining engin. (B. S.), Engl. lang. and lit., modern lang. (B. L.).	Schools of farming, dairying, vet. sci., normal (2 yrs.), business, mining (2 yrs. each, no degree), school of phar. (2 yrs., Ph. G.), prep. school (3 yrs.).
West Virginia.....	West Virginia University....	Morgantown.....	J. H. Raymond, Ph. D.	Clas. (B. A.), sci. (B. S.), philos. (Ph. B.), modern lit. (B. L.), mech. engin. (B. S. M. E.), civil engin. (B. S. C. E.), agr. (B. S. Agr.), law (LL. B.).	Agr. (2 yrs. B. Agr.), law, mech. and elect. (2 yrs., each certificate).
Wisconsin.....	The West Virginia Colored Institute. University of Wisconsin.....	Farm	J. McH. Jones	Academic, normal, agr., and mech. (no degrees).	Phar. 2 yrs. or 3 yrs. courses (Ph. G.), law, music, agr. (2 winter courses 14 weeks each, certificate) dairy school (12 weeks).
		Madison	C. K. Adams, LL. D.	Ancient clas. (B. A.), modern clas., civ. hist., Engl. (B. L.), general sci. (B. S.), civil engin. (B. S. C. E.), mech. eng. (B. S. M. E.), elect. engin. (B. S. E. E.), agr. (B. S. Agr.), phar. (B. S. Ph.).	
Wyoming	University of Wyoming.....	Laramie	E. E. Smiley, B. A., B. D.	Clas., lit., sci. (B. A.), normal (B. Ped.), agr., mech., eng., school of mines (B. S.).	Agr. (1 to 2 yrs.), school of mines (6 weeks).

TABLE 2.—General statistics of land-grant colleges, 1898.

State or Territory.	Date of establishment of institution.	Date of establishment of agricultural course.	Faculty.			Experiment-station officers.	Graduates.			Number of volumes in library.	Number of acres allotted to State under act of 1862.	Number of acres of land grant still unsold.	Number of acres in farm and grounds.	Rate of interest on land-grant fund of 1862.
			College of Agriculture and Mechanic Arts.		Other departments.		In 1897-98.		Total number since organization.					
			Preparatory classes.	Collegiate and special classes.			Number.	Average age.						
Alabama (Auburn).....	1872	1872	3	28	31	11	48	20	10	500	240,000	.....	240	8
Alabama (Normal).....	.....	.....	10	8	11	10	.....	33	23	429	.....	.....	182	.....
Arizona.....	1891	1891	3	12	15	11	4	20	10	10	.....	.....	.....	.....
Arkansas (Fayetteville).....	1872	1872	17	23	43	8	13	21	216	14,407	150,000	.....	160	8
Arkansas (Pine Bluff).....	.....	.....	.....	8	.....	.....	10	18	100	3,750	.....	.....	20	.....
California.....	1868	1868	.....	72	72	27	247	22	8	3,424	150,000	4,194	424	6
Colorado.....	1877	1878	1	24	25	18	13	21	6	115	90,000	30,077	800	6
Connecticut.....	1881	1881	.....	13	13	6	14	20	163	7,000	180,000	.....	300	5
Delaware.....	1870	1870	.....	13	13	6	10	21	3	339	90,000	.....	14	6
Delaware (Newark).....	.....	.....	.....	4	7	.....	2	25	2	700	.....	.....	97	.....
Delaware (Dover).....	1892	1892	3	13	16	7	12	20	3	49	90,000	.....	140	6
Florida (Lake City).....	1884	1884	2	13	15	3	.....	.....	.....	250	.....	.....	135	.....
Florida (Tallahassee).....	1887	1890	7	4	17	4	11	21	264	37,005	300,000	.....	120	7
Georgia (Athens).....	1872	1872	.....	21	21	7	11	21	.....	.....	.....	.....	86	.....
Georgia (College).....	.....	.....	1	10	11	.....	7	22	11	520	.....	.....	112	.....
Idaho.....	1892	1892	8	16	21	11	8	22	17	15,600	90,000	90,000	665	5
Illinois.....	1867	1868	7	92	99	76	10	90	23	7	1,188	480,000	11,000	5
Indiana.....	1874	1874	.....	64	64	11	72	23	.....	910	10,952	390,000	90	5
Iowa.....	1869	1869	.....	59	59	21	88	.....	.....	978	204,309	9,536	840	6, 7, 8
Kansas.....	1863	1874	9	33	42	12	69	22	6	802	82,314	80	323	6
Kentucky.....	1865	1880	4	14	18	7	19	21	191	9,325	330,000	.....	100	6
Kentucky (Lexington).....	.....	.....	.....	5	.....	1	12	22	67	883	.....	.....	30	6
Kentucky (Frankfort).....	1887	1892	3	2	5	20	12	.....	.....	22,000	.....	.....	.....	.....
Louisiana (Baton Rouge).....	1877	1887	2	18	20	20	16	18	3	116	.....	.....	104	.....
Louisiana (New Orleans).....	1880	1890	7	6	13	.....	16	22	10	530	210,000	.....	373	5
Maine.....	1865	1868	.....	34	34	12	43	22	10	2,800	.....	.....	286	5, 6
Maryland.....	1859	1859	1	16	17	13	13	19	.....	508	360,000	.....	404	5
Massachusetts (Amherst).....	1867	1867	.....	22	22	22	11	22	.....	1,960	.....	.....	.....	.....
Massachusetts (Boston).....	.....	.....	54	54	54	.....	193	23	.....	763	235,682	88,312	676	7
Michigan.....	1855	1855	42	42	42	19	29	23	.....	2,540	94,000	250	300	34
Minnesota.....	1869	1869	58	58	164	13	185	.....	.....	52,000	.....	.....	.....	.....

Total, counting none twice.

TABLE 2. — *General statistics of land-grant colleges, 1898—Continued.*

State or Territory.	Date of establishment of institution.	Date of establishment of agricultural course.	Faculty.			Experiment-station officers.	Graduates.			Number of volumes in library.	Number of acres allotted to State under act of 1862.	Number of acres of land grant of 1862 still unsold.	Number of acres in farm and grounds.	Rate of interest on land-grant fund of 1862.		
			College of Agriculture and Mechanic Arts.				In 1897-98.	Total number since organization.								
			Preparatory classes.	College and special classes.	Total.											
									Number.						Average.	
Mississippi (Agricultural College).....	1880	1880	3	18	21	9	12	15	21	8	230	14,177	207,920	90,000	1,960	6
Mississippi (Westside).....	1871	1878	6	8	14			1	38	101		8,320	270,000		300	5
Missouri (Columbia).....	1870	1870		30	30	30	13	42					275,016	45,112	718	5
Missouri (Rolla).....				10	10			5	26	6	88	5,258			20	5
Missouri (Jefferson City).....			3	3	13			20	21	126		5,325			43	
Montana.....	1893	1893	3	15	18		7	4	20	7		5,500	90,000	90,000	185	
Nebraska.....	1869	1869	3	44	47	124	19	44	24	241		40,000	90,000	14,444	332	6
Nevada.....	1873	1888	9	16	119	3	7	19	20	85		10,877	90,000		36	4
New Hampshire.....	1860	1866	12	18	21	5	11	19	22	6	192	9,346	150,000		342	6
New Jersey.....	1864	1865	10	24	133	3	8	41	22	1	353	41,562	210,000			5
New Mexico.....	1889	1890	4	17	17	3	15	8	22		21	4,316			200	5
New York.....	1865	1865		59	58	137	21	260			4,755	246,278	990,000	155,194	500	6
North Carolina (West Raleigh)	1889	1889					20	21		87			300,060		25	
North Carolina (Greensboro)																
North Dakota.....	1890	1890	7	18	120		12	6	21	13		9,015	90,000	90,000	640	6
Ohio.....	1870	1873		36	125	70		71	22	876		30,339	630,000		345	
Oklahoma.....	1891	1892	2	9	11		11	7	20	16		7,200			200	
Oregon.....	1868	1868		26	26			29	22	291		5,800	90,000		198	6
Pennsylvania.....	1855	1859	3	44	47		18	44	22	7	414	13,408	780,000		400	6
Rhode Island.....	1888	1890		25	25		12	10	20	53		14,250	50,000		180	3
South Carolina (Clemson College)	1889	1893	5	24	29		14	25	20	62		750			1,102	6
South Carolina (Orangeburg).....	1896	1896	15	6	21	9		12	20	28					1,120	7
South Dakota.....	1881	1884	5	14	19		12	31	24	133		15,400	120,000	120,000	400	
Tennessee.....	1794	1869		30	30	31	10	31	21			27,500	180,000		231	
Texas (College Station).....	1871	1871	2	22	22		15	23	20	6	332	8,500			2,416	6,7
Texas (Prairieview).....			3	8	18							1,196				
Utah.....	1888	1889	3	21	21		11	5	21	52		8,850	200,000	200,000	108	6
Vermont.....	1865	1885		20	20	30	13	36	23	4	3,174		150,000		120	
Virginia (Blacksburg).....	1872	1872	31	31	31		11	17	22	263		3,750			404	6

TABLE 3.—Students, by classes and courses, at land-grant colleges in 1898.

State or Territory.	By classes.						By courses.										
	Preparatory classes.	Freshmen.	Sophomores.	Juniors.	Seniors.	Special ¹	Postgraduate.	Total.	Agriculture.	Mechanical engineering.	Civil engineering.	Electrical engineering.	Mining engineering.	Architecture.	Household economy.	Veterinary science.	Military tactics.
Alabama (Auburn).....	29	62	70	56	49	50	23	341	105	35	12	53				30	294
Alabama (Normal).....	440	18						458	167	10					163		
Arizona.....	99	12	9	3	4	29		156	2	1	3	1					88
Arkansas (Fayetteville).....	62	103	58	18	15	13		478	3	5	8	14			39		315
Arkansas (Pine Bluff).....	129	23	10	4		50	4	319									
California.....	339	297	283	263	214	784	20	2,391	238	190	310	105	232		75	7	681
Colorado.....	45	61	48	25	13	145	7	344	99	49	45				24	89	234
Connecticut.....	27	20	20	20	18	28		113	113							3	81
Delaware (Newark).....	32	19	21	12	4	3	101	46	4	5	10	12			12		
Delaware (Dover).....	27	5	6	6	2			46									
Florida (Lake City).....	46	50	14	12	7	69	2	200	7	15							123
Florida (Tallahassee).....	169					2		218	16	15							
Georgia (Athens).....		51	20	20	14		5	110	19		16	16	3	5			147
Georgia (College).....			2	1		38		160						4			
Idaho.....	110	8	2		1												
Illinois.....	161	35	21	11	8	9	3	248	6	54	5	83	12				148
Indiana.....	199	217	138	123	93	125	78	1,582	38	174	72	117				5	370
Iowa.....	171	124	124	133	74	191	57	750	60	174	85					60	270
Kansas.....	71	223	113	74	86	64	5	636	57	48	45	83	3		54	27	195
Kentucky.....	316	174	174	77	82	20	57	803									
Kentucky (Lexington).....	81	117	61	33	21	16	9	430	7	67	20						306
Kentucky (Frankfort).....	36					21		147	50	7		13			68		
Louisiana (Baton Rouge).....	88						4	250	45	42						15	186
Louisiana (New Orleans).....	381	5				52		443	62								
Maine.....	87	95	95	60	46	29	7	324	4	50	51	61					
Maryland.....	23	21	28	18	14			105	10	20	27					34	105
Massachusetts (Amherst).....		40	35	31	22	5	9	142	133		2					2	126
Massachusetts (Boston).....	321	308	308	295	241	26		1,198		119	109	90	98	71			273
Michigan.....	226	130	130	39	36	39	5	475	168	134					81		319
Minnesota.....	552	560	560	430	301	698	185	2,890	470	32	17	60	54		102	15	450
Mississippi (Agricultural College).....	92	79	33	24	15	49		296	229	191							28
Mississippi (Westside).....	224		7	41	1				248								
Missouri (Columbia).....		124	41	40	75	538		818	101	8	50	26	49				189
Missouri (Rolla).....		29	22	18	4	42	2	117			28	49			72		
Missouri (Jefferson City).....								120									
Montana.....	69	1	2			48		201	5	4		2			3		90
Nebraska.....	183	10	5	2	1			523	67		21	48					
Nevada.....	141	103	86	57	46	53	37	523			6						162
Nevada.....	92	74	50	33	21		4	328	1	10	2		50				73
New Hampshire.....	7	18	17	20	21	61	2	143	44	38		2					
New Jersey.....	144	23	24	21	22	61	1	296	25		29	15					96

	134	19	8	5	8	40	1	215	4	10	2	467	53	16	400
New Mexico.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New York.....	601	376	276	30	331	85	166	1,835	84	467	179	467	53	16	400
North Carolina (West Raleigh).....	29	107	58	30	16	.....	15	.....	.....	.....	.....	.....	.....	.....	.....
North Carolina (Greensboro).....	21	14	9	.....	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
North Dakota.....	175	23	7	10	7	12	3	237	35	35	55	91	18	26	135
Ohio.....	.....	.....	.....	.....	.....	.....	.....	1,150	100	56	.....	.....	11	12	44
Oklahoma.....	98	48	12	8	8	.....	.....	174	50	.....	.....	.....	.....	3	.....
Oregon.....	.....	151	75	45	26	24	15	336	61	106	.....	.....	.....	.....	177
Pennsylvania.....	40	94	68	42	44	56	3	347	76	44	32	65	20	.....	274
Rhode Island.....	.....	24	21	20	12	67	7	183	30	70	8	41	.....	6	82
South Carolina (Clemson College).....	240	130	56	25	16	.....	10	477	100	100	20	48	.....	25	450
South Carolina (Orangeburg).....	489	62	3	6	.....	.....	.....	560	45	40	.....	.....	116	82	235
South Dakota.....	48	59	35	11	19	228	.....	400	32	.....	.....	.....	.....	138	240
Tennessee.....	.....	68	49	31	23	80	14	608	20	41	40	24	.....	8	115
Texas (College Station).....	.....	148	113	36	24	13	3	337	176	227	38	.....	.....	.....	.....
Texas (Prairieview).....	.....	.....	.....	.....	.....	.....	.....	190	30	40	.....	.....	.....	.....	.....
Utah.....	279	72	21	8	4	56	4	447	.....	.....	5	.....	.....	.....	.....
Vermont.....	.....	93	73	63	48	15	1	575	29	17	19	25	.....	29	240
Virginia (Blacksburg).....	.....	109	63	34	32	56	39	333	100	92	24	46	.....	.....	289
Virginia (Hampton).....	811	131	130	48	.....	.....	.....	1,120	265	.....	.....	.....	55	.....	.....
Washington.....	192	35	16	14	12	85	2	380	26	16	12	16	.....	1	210
West Virginia (Morgantown).....	174	99	40	102	51	30	22	644	10	17	27	.....	.....	.....	113
West Virginia (Farm).....	91	.....	.....	.....	.....	.....	.....	91	.....	.....	.....	.....	.....	.....	.....
Wisconsin.....	272	308	294	367	225	272	23	1,767	276	67	77	69	.....	.....	360
Wyoming.....	65	21	15	14	14	48	8	185	3	16	.....	.....	14	.....	77
Total.....	6,593	6,016	4,202	3,216	2,506	4,526	878	31,658	4,181	2,797	1,504	1,698	554	1,298	8,952

¹ Under this head are enumerated students in undergraduate courses not included in the preceding columns.

TABLE 4.—*Value of permanent funds and equipment of land-grant colleges, 1898.*

State or Territory.	Land-grant fund of 1862.	Other land-grant funds.	Other permanent funds.	Land grant of 1862 still unsold.	Farm and grounds owned by the institution.	Buildings.	Apparatus.	Machinery.	Library.	Miscellaneous equipment.	Total.
Alabama (Auburn).....	\$253,500.00				\$8,000.00	\$144,500.00	\$21,556.00	\$19,484.00	\$22,364.00	\$20,409.00	\$487,813.00
Alabama (Normal).....					10,000.00	50,000.00	2,175.57	3,655.84	1,304.00		67,135.41
Arizona.....					3,000.00	86,000.00	21,000.00	20,000.00	5,533.46	1,000.00	137,133.46
Arkansas (Fayetteville).....					9,600.00	230,000.00	11,311.00	17,333.00	7,500.00	8,250.00	414,054.00
Arkansas (Pine Bluff).....						18,000.00	15,000.00	5,000.00	3,500.00	1,000.00	42,500.00
California.....	731,183.30	\$149,092.99	\$1,939,472.56	\$20,972.35	1,125,554.00	702,110.84	41,000.00	14,306.95	140,000.00	1216,384.12	5,024,770.16
Colorado.....	68,612.09				48,468.00	151,709.80	4,500.00	7,000.00	10,752.28	15,000.00	499,479.12
Connecticut.....	135,000.00		1,000.00		15,000.00	75,000.00	4,500.00	10,500.00	7,000.00	3,000.00	265,500.00
Delaware (Newark).....	83,000.00				3,000.09	79,700.00	22,000.00	3,600.00	19,000.00	1,000.00	218,200.00
Delaware (Dover).....					6,000.00	14,000.00		2,600.00	21,000.00		24,600.00
Florida (Lake City).....	151,783.00				7,635.00	31,245.00	8,402.00	3,600.00	6,000.00	8,465.00	216,170.00
Florida (Tallahassee).....					9,605.00	15,000.00	3,000.00		2,000.00		29,605.00
Georgia (Athens).....	243,000.00				7,000.00	300,000.00	100,000.00	10,000.00	50,000.00	10,000.00	720,000.00
Georgia (College).....	8,000.00				15,000.00	10,500.00	800.00		500.00	200.00	35,000.00
Iaho.....		6,638.35	5,772.32		15,000.00	128,900.00	43,000.00	2,500.00	5,500.00		1,100,910.67
Illinois.....	404,083.85				6,600.00	800,000.00	113,000.00	35,000.00	43,000.00		1,789,083.85
Indiana.....	340,000.00				150,000.00	345,000.00	107,000.00	131,500.00	16,500.00		1,030,000.00
Iowa.....	591,354.01		89,679.51	41,751.94	34,400.00	400,000.00	125,000.00	25,000.00	20,000.00		1,327,185.46
Kansas.....	503,478.70			720.00	39,700.00	228,438.60	68,421.01	28,835.54	40,547.62		938,493.01
Kentucky (Lexington).....	165,000.00				275,000.00	124,000.00	30,500.00	21,500.00	6,700.00		627,700.00
Kentucky (Frankfort).....	20,925.00	3,335.00	3,000.00		1,873.25	16,092.74	300.00	2,500.00	1,500.00	5,000.00	50,925.99
Louisiana (Baton Rouge).....											
Louisiana (New Orleans).....					22,000.00	45,320.00	2,957.36	4,380.00	1,579.40	5,767.00	82,003.76
Maine.....	118,300.00		100,000.00		9,325.00	200,900.00	31,000.00	25,350.00	24,000.00	20,500.00	529,375.00
Maryland.....	115,943.00		9,000.00		28,600.00	71,000.00	27,000.00				251,543.00
Massachusetts (Amherst).....	219,000.00		141,575.35		45,000.00	216,000.00	14,000.00		20,000.00	9,000.00	664,575.35
Massachusetts (Boston).....			1,882,850.59			535,000.00					2,617,850.59
Michigan.....	625,790.98			88,311.73	47,320.00	237,906.55	64,525.47	14,497.83	45,487.20	200,000.00	1,225,083.13
Minnesota.....	510,000.00	590,000.00	148,939.22	13,500.00	500,000.00	1,000,000.00	90,000.00	50,600.00	75,000.00	50,000.00	3,027,439.22
Mississippi (Agricultural College).....	98,575.00				42,605.00	132,655.00	9,983.71	28,259.23	11,390.34	35,380.47	359,448.75
Mississippi (Vestside).....	113,375.00		6,814.50		2,500.00	65,000.00	1,000.00		45,581.00	173,344.00	202,689.50
Missouri (Columbia).....	349,881.19		2,000.00	75,000.00	153,506.00	205,500.00					904,812.19
Missouri (Rolla).....	87,472.80		2,000.00	60,000.00	6,000.00	50,000.00		8,000.00	10,000.00	10,000.00	283,472.80
Missouri (Jefferson City).....					4,300.00	70,000.00	7,000.00	10,000.00	321.00		91,621.00
Montana.....	61,955.15	23,000.00		225,000.00	10,000.00	110,000.00	15,000.00	25,000.00	100,000.00	5,000.00	423,000.00
Nebraska.....	93,000.00	19,565.63	72,500.00	10,104.71	200,000.00	450,000.00	75,000.00	40,000.00	100,000.00	15,000.00	1,044,125.49
Nevada.....	80,000.00	34,600.00		2,888.75	16,000.00	140,183.67	17,029.81	8,141.22	20,648.96	26,256.57	358,688.58
New Hampshire.....			40,000.00		20,500.00	167,170.85	22,196.48	14,071.10	10,744.05	7,580.00	380,481.00
New Jersey.....	116,000.00		500,000.00		3,668,500.00					464,880.00	1,047,380.00
New Mexico.....					10,000.00	50,500.00	10,720.00	14,065.00	5,900.00	5,000.00	96,185.00
New York.....	688,572.12		5,612,004.72		103,468.91	1,692,903.95		238,905.07	445,894.00	2,450,509.05	9,292,257.82

North Carolina (West Raleigh)	125,000.00	.....	.....	27,000.00	78,000.00	8,300.00	7,300.00	3,900.00	4,700.00	254,200.00
North Carolina (Greensboro) .....	.....	.....	.....	3,000.00	64,000.00	.....	28,000.00	1,800.00	.....	76,800.00
North Dakota .....	.....	.....	.....	25,000.00	90,000.00	10,100.00	3,500.00	9,200.00	6,300.00	1,044,100.00
Ohio	324,176.30	26,292.97	900,000.00	1,500,000.00	700,000.00	300,000.00	100,000.00	60,000.00	10,000.00	3,220,493.27
Oklahoma .....	.....	.....	.....	5,000.00	20,000.00	20,000.00	3,000.00	7,500.00	.....	35,300.00
Oregon	132,430.00	.....	.....	14,500.00	53,000.00	8,000.00	10,000.00	3,000.00	7,000.00	227,330.00
Pennsylvania	427,290.50	89,709.50	.....	40,000.00	750,000.00	.....	20,000.00	20,000.00	.....	1,387,000.00
Rhode Island	50,000.00	.....	.....	182,000.00	180,900.00	79,565.94	10,000.00	11,625.00	.....	514,090.94
South Carolina (Clemson College)	95,900.00	.....	.....	26,280.00	220,000.00	.....	250,000.00	5,000.00	12,000.00	487,719.39
South Carolina (Orangeburg) .....	.....	58,539.39	.....	.....	.....	.....	.....	.....	.....	.....
South Dakota .....	.....	.....	.....	.....	93,009.00	530,000.00	.....	.....	.....	1,370,250.00
Tennessee	396,000.00	.....	38,000.00	9,250.00	162,400.00	11,383.50	12,250.00	52,442.94	4,400.00	954,126.44
Texas (College Station)	209,000.00	.....	29,000.00	286,250.00	298,065.00	.....	.....	5,500.00	47,595.45	608,480.45
Texas (Prairieview) .....	.....	.....	.....	48,320.00	.....	.....	.....	.....	.....	.....
Utah .....	.....	.....	.....	.....	145,000.00	.....	237,502.46	5,450.00	.....	108,782.46
Vermont	135,500.00	.....	376,000.00	24,000.00	478,044.95	75,000.00	24,000.00	104,000.00	30,000.00	1,247,144.95
Virginia (Blacksburg)	344,312.00	.....	.....	30,000.00	140,000.00	.....	.....	.....	465,763.50	580,081.50
Virginia (Hampton)	172,156.00	.....	708,360.00	52,000.00	496,000.00	.....	.....	4,500.00	1131,500.00	1,564,516.00
Washington .....	.....	.....	.....	15,000.00	100,000.00	18,000.00	18,000.00	5,000.00	15,000.00	171,000.00
West Virginia (Morgantown)	90,000.00	.....	24,750.00	5,000.00	300,000.00	.....	2113,000.00	30,000.00	3,800.00	566,550.00
West Virginia (Farm) .....	.....	.....	.....	2,500.00	45,000.00	500.00	5,500.00	1,200.00	2,000.00	56,700.00
Wisconsin	302,000.00	230,000.00	25,000.00	300,000.00	1,200,000.00	210,000.00	50,000.00	55,000.00	50,000.00	2,422,000.00
Wyoming .....	.....	.....	.....	9,540.00	102,000.00	18,000.00	14,000.00	6,325.00	5,000.00	154,865.00
Total	10,170,549.99	1,204,234.44	11,816,258.16	3,838,219.48	6,046,500.16	15,185,476.95	1,916,227.85	1,634,190.25	1,765,243.19	53,632,852.25

¹ Includes apparatus and machinery.² Includes apparatus.³ Includes buildings.⁴ Includes apparatus, machinery, and library.⁵ Includes machinery, library, and miscellaneons.

TABLE 5.—Revenue of land-grant colleges for year ending June 30, 1898.

State or Territory.	Interest on land grant of 1862.	Interest on other funds.	United States appropriation (act of 1890).	State appropriation (annual or regular).	State appropriation (occasional).	Tuition fees.	Incidental fees.	Miscellaneous.	Total.	United States appropriation for experiment stations (act of 1887).
Alabama (Auburn)	\$20,280.00		\$12,523.48	\$9,988.30		\$480.00	\$1,407.50	\$1,080.75	\$45,760.03	\$15,000.00
Alabama (Normal)			10,476.50	4,000.00					14,476.50	
Arizona			23,000.00	10,700.00			621.29		36,239.31	15,000.00
Arkansas (Fayetteville)	10,400.00		16,727.30	34,650.00		1,100.00	2,830.00	1,918.02	65,707.30	15,000.00
Arkansas (Pine Bluff)			6,272.70	9,000.00		450.00			15,722.70	
California	43,704.20	\$68,918.50	23,000.00	216,092.48	\$169,048.91			13,443.64	534,207.82	15,000.00
Colorado	3,504.12		23,000.00	36,500.00				730.69	63,734.81	15,000.00
Connecticut	6,750.00		24,000.00	15,000.00					45,750.00	7,500.00
Delaware (Newark)	4,980.00		18,400.00			360.00	1,528.99	937.44	26,206.43	15,000.00
Delaware (Dover)			4,600.00						4,600.00	
Florida (Lake City)	9,107.00		11,500.00		4,355.78		1,493.65	1,050.18	27,506.61	15,000.00
Florida (Tallahassee)			12,000.00	4,000.00			389.00		16,389.00	
Georgia (Athens)	16,954.14		15,333.34				1,050.00		33,337.48	15,000.00
Georgia (College)	8,000.00		7,665.67						15,665.67	
Idaho		500.00	23,000.00	6,000.00		622.03			30,122.03	15,000.00
Illinois	14,366.95		23,000.00	110,000.00	100,000.00	6,630.95	20,000.00	8,914.60	282,912.50	15,000.00
Indiana	17,000.00		23,000.00	65,374.81	16,285.83		17,087.25	12,774.86	151,522.75	15,000.00
Iowa	42,379.33	5,350.42	23,000.00	18,500.00	27,000.00			2,286.73	118,516.48	15,000.00
Kansas	27,716.59		23,000.00	31,783.54				12,084.04	94,504.17	15,000.00
Kentucky (Lexington)	29,616.75		19,665.00	31,675.70		859.50	844.25	7,684.41	90,315.61	15,000.00
Kentucky (Frankfort)			3,335.00	3,000.00	4,404.46		137.00	1,807.91	13,939.87	15,000.00
Louisiana (Baton Rouge)	1,255.50									
Louisiana (New Orleans)			11,862.00	9,000.00				200.00	21,062.00	15,000.00
Maine	5,915.00		23,000.00	20,000.00		7,562.00	17,568.52		74,045.52	15,000.00
Maryland	6,142.30		23,000.00	9,000.00	9,500.00			30,701.73	78,344.03	15,000.00
Massachusetts (Amherst)	7,300.00	3,676.15	15,333.33	10,000.00	5,000.00	412.75		1,770.85	43,493.08	15,000.00
Massachusetts (Boston)	15,131.37	35,000.00	8,000.00	25,000.00	25,000.00	216,832.00		41,035.03	330,998.40	15,000.00
Michigan	41,234.34	5,068.58	23,000.00	125,000.00	11,000.00	140.00	9,024.39	9,664.45	99,671.76	15,000.00
Minnesota	21,820.55	34,457.13	24,000.00	20,500.00	24,000.00	68,257.00		7,939.06	305,493.74	15,000.00
Mississippi (Agricultural College)	5,914.50		10,681.41			180.00		14,712.80	51,988.71	15,000.00
Mississippi (Westside)	6,814.50	11,000.00	12,000.00	10,000.00		1,200.00			29,814.50	15,000.00
Missouri (Columbia)	17,594.10		22,719.97	8,000.00		800.00			51,514.00	15,000.00
Missouri (Rolla)	4,910.36	100.00	5,679.87	17,275.00		138.50	1,200.00	6,469.58	27,139.91	15,000.00
Missouri (Jefferson City)			1,233.18						18,646.68	
Montana			23,000.00		12,000.00		500.00		38,000.00	15,000.00
Nebraska	38,500.00		24,000.00	252,000.00	30,000.00	1,750.00		750.00	382,000.00	15,000.00
Nevada	4,253.00		23,000.00	32,500.00		1,500.00		6,000.00	61,003.00	15,000.00
New Hampshire	4,800.00	2,478.00	23,000.00	3,000.00	2,500.00		627.00	13,962.44	50,367.44	15,000.00
New Jersey	6,480.00		23,000.00					20,430.47	49,919.47	15,000.00
New Mexico			23,000.00	4,647.28		900.00		372.74	28,920.02	15,000.00

New York.....	34,428.80	341,233.02	23,000.00	10,000.00	121,205.83	49,440.21	569,307.86	13,742.87
North Carolina (West Raleigh).....	7,500.00		14,356.20	12,500.00	3,257.00	1,966.00	38,484.86	15,000.00
North Carolina (Greensboro).....			8,414.40	27,000.00	250.00		21,164.40	
North Dakota.....			23,000.00	185,623.61		3,277.32	53,277.32	15,000.00
Ohio.....	31,461.47	1,511.64	23,000.00	5,000.00		195,362.57	462,175.79	
Oklahoma.....			23,000.00	5,000.00			23,500.00	15,000.00
Oregon.....	12,577.95		23,000.00			1,161.47	41,739.42	15,000.00
Pennsylvania.....	25,637.43		23,000.00				98,945.97	15,000.00
Rhode Island.....	2,941.60		23,000.00	10,000.00		10,158.54	59,964.00	15,000.00
South Carolina (Clemson College).....	5,764.00	3,512.36	11,500.00	50,000.00		8,450.00	74,163.40	15,000.00
South Carolina (Orangeburg).....	5,754.00		11,500.00	5,000.00	1,350.00	1,437.04	27,255.00	
South Dakota.....			23,000.00	9,500.00	8,635.00	1.00	51,103.49	15,000.00
Tennessee.....	23,960.00	1,450.00	23,000.00			1,968.49	50,398.22	15,000.00
Texas (College Station).....	14,280.00		17,250.00	20,000.00		7,323.93	35,715.00	15,000.00
Texas (Prairieview).....						1,853.00		
Utah.....			23,000.00	11,250.00	2,015.00	681.00	41,425.47	15,000.00
Vermont.....	8,130.00	21,944.15	23,000.00	6,000.00		6,115.47	78,247.77	15,000.00
Virginia (Blacksburg).....	20,658.72		15,333.34	15,000.00		11,592.97	62,585.03	15,000.00
Virginia (Hampton).....	10,329.36	29,226.22	7,686.66			99,296.16	146,518.40	
Washington.....			23,000.00	27,500.00			59,500.00	15,000.00
West Virginia (Morgantown).....	6,408.00		18,000.00		777.00	4,363.99	73,318.08	15,000.00
West Virginia (Farm).....			5,000.00	15,000.00		600.00	20,600.00	
Wisconsin.....	11,889.85	12,101.12	24,000.00	282,787.00	32,572.80	11,765.48	380,076.67	15,000.00
Wyoming.....			23,000.00	8,076.69	609.96	4,460.42	32,243.42	15,000.00
Total.....	645,546.28	578,067.38	1,108,610.38	1,827,924.51	480,847.32	679,130.93	6,008,379.20	696,242.87

¹ For year ended September 30, 1898.

² Includes tuition fees.

TABLE 6.—*Additions to equipment of land-grant colleges, 1898.*

State or Territory.	Permanent endowment.	Buildings.	Library.	Apparatus.	Machinery.	Miscella- neous.	Total.
Alabama (Auburn).....		\$1,884.00	\$1,713.00	\$2,647.00	\$907.00	\$1,367.00	\$8,518.00
Alabama (Normal).....		1,533.00					1,533.00
Arizona.....		1,847.61	1,105.03	1,268.21			4,260.85
Arkansas (Fayetteville).....		2,300.00		784.00	6,856.00	1,360.00	11,300.00
Arkansas (Pine Bluff).....			175.00	800.00			975.00
California.....		55,317.90	3,558.19			135,324.28	94,200.37
Colorado.....	\$10,374.76	27,151.80	1,063.28	2,122.38	4,734.00	116.22	45,562.44
Connecticut.....		200.00		200.00			200.00
Delaware (Newark).....			1,500.00	700.00	400.00	800.00	3,400.00
Delaware (Dover).....		800.00					800.00
Florida (Lake City).....		4,000.00	1,000.00	1,402.00	440.00	465.00	4,107.00
Florida (Tallahassee).....		22,000.00					22,000.00
Georgia (Athens).....			765.00	5,650.00	3,000.00		4,000.00
Georgia (College).....							31,415.00
Idaho.....		3,900.00					
Illinois.....	5,570.94	80,000.00	5,000.00	2,000.00	500.00		12,900.00
Indiana.....		20,000.00	1,500.00	5,000.00	5,000.00	6,000.00	106,570.94
Iowa.....		15,000.00	1,000.00	3,000.00	34,500.00		65,000.00
Kansas.....	1,134.45	16,000.00	1,000.00	3,000.00	1,000.00		20,000.00
Kentucky (Lexington).....		20,000.00	1,000.00	1,413.09	1,561.18	4,838.89	25,947.61
Kentucky (Frankfort).....			1,100.00	300.00	500.00	750.00	22,650.00
Louisiana (Baton Rouge).....		3,625.43	25.00	5.20			4,911.13
Louisiana (New Orleans).....							
Maine.....		5,000.00	4,000.00	1,000.00	350.00	500.00	500.00
Maryland.....		15,000.00				500.00	10,850.00
Massachusetts (Amherst).....							15,000.00
Massachusetts (Boston).....			250.00	350.00			15,000.00
Michigan.....	884,000.00	9,634.40	1,551.49	2,219.82		4,056.40	884,000.00
Minnesota.....	75,772.27	700.00	7,200.00	7,500.00	6,000.00	12,000.00	93,294.38
Mississippi (Agricultural College).....	47,701.14		1,151.19	250.20	6,285.00	572.02	80,401.00
Mississippi (Westside).....							
Missouri (Columbia).....							
Missouri (Rolla).....							
Missouri (Jefferson City).....							
Montana.....		300.00	800.00	4,500.00			5,300.00
Nebraska.....			300.00	1,500.00		500.00	2,600.00
Nevada.....		4,000.00					
New Hampshire.....		34,000.00	2,000.00	10,000.00	5,000.00	2,000.00	23,000.00
New Jersey.....		8,131.09	449.19	2,000.00		2,500.00	52,500.00
New Mexico.....		2,329.85	1,692.48	3,580.09	657.82	1,165.29	8,933.48
New York.....	43,000.00		2,739.30	3,105.34	1,010.38	415.78	8,553.83
North Carolina (West Raleigh).....		18,000.00	400.00	970.00	1,565.00	1,000.00	45,799.30
North Carolina (Greensboro).....	146,237.37	60,000.00	32,822.00		13,147.31	336,000.68	21,925.00
North Dakota.....		6,856.00	1,000.00	850.00	500.00	900.00	288,807.36
Ohio.....							10,100.00
			700.00	1,100.00	500.00	200.00	2,500.00
	1,099.03	221,926.67	3,620.98		312,663.25	26,577.47	265,887.40

Oklahoma	200.00	793.83	2,100.00	.....	2,000.00	5,093.83
Oregon	800.00	756.05	643.74	.....	.....	2,199.79
Pennsylvania .....	.....	1,500.00	.....	31,500.00	.....	3,000.00
Rhode Island	11,500.00	1,262.30	8,708.94	390.16	.....	21,861.40
South Carolina (Clemson College)	6,000.00	1,000.00	1,000.00	600.00	.....	9,100.00
South Carolina (Orangeburg)	2,500.00	.....	500.00	.....	500.00	3,000.00
South Dakota	8,000.00	.....	.....	.....	.....	8,000.00
Tennessee	1,000.00	1,280.00	1,263.50	.....	400.00	3,943.50
Texas (College Station)	28,000.00	655.00	.....	.....	.....	28,655.00
Texas (Prairieview) .....	.....	.....	.....	.....	.....	.....
Utah .....	.....	.....	.....	.....	.....	.....
Vermont .....	.....	1,350.00	15,000.00	1,500.00	600.00	18,450.00
Virginia (Blacksburg) .....	.....	.....	.....	.....	43,769.50	3,769.50
Virginia (Hampton)	208,132.18	.....	.....	.....	115,000.00	275,132.18
Washington .....	.....	737.80	24,734.46	.....	.....	5,472.26
West Virginia	8,750.00	1,000.00	4,006.00	721.00	2,538.00	17,035.00
West Virginia (Morgantown)	45,000.00	1,200.00	500.00	5,500.00	2,000.00	54,200.00
Wisconsin	25,000.00	5,000.00	5,000.00	3,000.00	.....	38,000.00
Wyoming	1,500.00	1,400.00	2,487.93	3,189.58	.....	8,577.51
Total	1,424,277.64	105,666.11	132,111.90	123,477.63	167,336.53	2,796,350.97

¹ Includes apparatus and machinery.² Includes machinery.³ Includes apparatus.⁴ Includes library, apparatus, and machinery.

TABLE 7.—Disbursements from the United States Treasury to the States and Territories of the appropriations in aid of colleges of agriculture and the mechanic arts under the act of Congress approved August 30, 1890.¹

State or Territory.	Year ending June 30—									
	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.
Alabama.....	\$15,000	\$16,000	\$17,000	\$18,000	\$19,000	\$20,000	\$21,000	\$22,000	\$23,000	\$24,000
Arizona.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Arkansas.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
California.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Colorado.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Connecticut.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Delaware.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Florida.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Georgia.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Idaho.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Illinois.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Indiana.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Iowa.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Kansas.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Kentucky.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Louisiana.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Maine.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Maryland.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Massachusetts.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Michigan.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Minnesota.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Mississippi.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Missouri.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Montana.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Nebraska.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Nevada.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
New Hampshire.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
New Jersey.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
New Mexico.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
New York.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
North Carolina.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
North Dakota.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Ohio.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Oklahoma.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Oregon.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Pennsylvania.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Rhode Island.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
South Carolina.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
South Dakota.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Tennessee.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000

Texas.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Utah.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Vermont.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Virginia.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Washington.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
West Virginia.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Wisconsin.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Wyoming.....	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000	24,000
Total.....	660,000	704,000	782,000	864,000	912,000	960,000	1,008,000	1,056,000	1,104,000	1,152,000

¹ Prepared in the Department of the Interior and printed in Senate Document No. 85, Fifty-fifth Congress, second session.

TABULATED STATISTICS OF THE AGRICULTURAL EXPERIMENT STATIONS.

TABLE 8.—*Stations and general statistics of the agricultural experiment stations in the United States, 1898.*

Station.	Location.	Director.	Date of original organization.	Date of organization under Hatch Act.	Number on teaching staff.	Number of teachers on staff.	Publications during fiscal year 1897-98.		Number of addresses on mailing list.	Principal lines of work.
							Number.	Pages.		
Alabama (College).....	Auburn	P. H. Mell	Feb. —, 1889	Feb. 24, 1888	11	8	13	296	7, 177	Botany; soils; analysis of fertilizers and food materials; field and pot experiments; horticulture; diseases of plants; feeding experiments; diseases of animals.
Alabama (Canebrake)...	Uniontown	H. Benton	Jan. 1, 1886	Apr. 1, 1888	3	2	1	16	2, 000	Soil improvement; field experiments; horticulture; diseases of plants.
Arizona	Tucson	C. S. Parsons.....	.....	1889	11	3	5	157	2, 300	Chemistry; meteorology; field experiments; canals; investigations; diseases of plants.
Arkansas	Fayetteville.....	R. L. Bennett .....	.....	1887	8	4	6	248	6, 000	Chemistry of foods; field experiments; horticulture; diseases of plants; feeding experiments; diseases of animals.
California.....	Berkeley.....	E. W. Hilgard.....	1875	1888	27	9	5	510	6, 000	Physics; chemistry and geographical distribution of soils; fertilizers; field crops; horticulture; botany; meteorology; technology of wine and olive oil and zymology; chemistry of foods and feeding stuffs; entomology; drainage and irrigation; reclamation of alkali lands; introduction and acclimation of foreign culture plants.
Colorado.....	Fort Collins	Alston Ellis	1879	Feb. —, 1888	18	6	9	432	5, 000	Chemistry; botany; meteorology; field experiments; horticulture; entomology; irrigation.
Connecticut (State)....	New Haven.....	S. W. Johnson.....	Oct. 1, 1875	May 18, 1887	15	0	4	458	5, 198	Chemistry; analysis and inspection of fertilizers and foods; field and pot experiments; horticulture; seed tests; diseases of plants; chemistry of feeding stuffs and dairy products.
Connecticut (Storrs)...	Storrs	W. O. Atwater.....	.....do .....	.....do	6	1	3	292	7, 000	Food and nutrition of man and animals; bacteriology of dairy products; field experiments; dairying.

Delaware	Newark	A. T. Neale.....	.....	Feb. 21, 1888	6	1	5	296	6,700	Chemistry; field experiments; horticulture; diseases of plants; feeding experiments; diseases of animals; entomology; dairying.
Florida	Lake City	W. F. Yocum .....	.....	1888	7	5	7	330	3,800	Chemistry; field experiments; horticulture; entomology.
Georgia.....	Experiment	R. J. Redding	Feb. 18, 1888	July 1, 1889	7	1	5	144	12,484	Field experiments; horticulture; pig feeding; dairying.	
Idaho.....	Moscow	Jos. P. Blanton .....	.....	Feb. 26, 1892	11	10	1	132	5,000	Physics; chemistry; botany; field experiments; horticulture; entomology.
Illinois	Urbana	E. Davenport .....	.....	Mar. 21, 1888	10	8	5	145	16,500	Chemistry; bacteriology; field experiments; horticulture; forestry; diseases of plants; feeding experiments; entomology; dairying.
Indiana.....	Lafayette.....	C. S. Plumb	1885	Jan. —, 1888	11	7	7	165	15,324	Chemistry; pot and field experiments; horticulture; feeding experiments; diseases of animals.	
Iowa	Ames	C. F. Curtiss .....	.....	Feb. 17, 1888	21	17	4	214	17,500	Chemistry; field experiments; horticulture; diseases of plants; feeding experiments; entomology; dairying.
Kansas	Manhattan	Thos. E. Will .....	.....	Feb. 8, 1888	12	7	16	392	6,000	Soils; horticulture; seed breeding; diseases of plants; feeding experiments; diseases of animals; entomology.
Kentucky	Lexington	M. A. Scovell	Sept. —, 1885	Apr. —, 1888	9	3	8	232	6,200	Chemistry; soils; fertilizer analysis; field experiments; horticulture; diseases of plants; entomology; dairying.	
Louisiana (Sugar).....	New Orleans.....	Wm. C. Stubbs.....	Sept. —, 1885	6	}			7,000		Chemistry; bacteriology; soils and soil physics; field experiments; horticulture; sugarmaking; drainage; irrigation.
Louisiana (State).....	Baton Rouge.....do	Apr. —, 1886	10	7	9	468			Chemistry; geology; botany; bacteriology; soils; field experiments; horticulture; feeding experiments; entomology.
Louisiana (North).....	Calhoundo	May —, 1887	4	}			8,500		Chemistry; soils; fertilizers; field experiments; horticulture; stock raising; dairying.
Maine	Orono	C. D. Woods	Mar. —, 1885	Oct. 1, 1887	12	6	11	307			Chemistry; botany; analysis and inspection of fertilizers and concentrated commercial feeding stuffs; horticulture; diseases of plants; seed tests; food and nutrition of man and animals; diseases of animals; entomology; dairying.
Maryland.....	College Park.....	H. J. Patterson	1888	Apr. —, 1888	13	3	8	226	8,000	Chemistry; soils; field experiments; horticulture; diseases of plants; feeding experiments; entomology; dairying.	

TABLE 8.—Stations and general statistics of the agricultural experiment stations in the United States, 1893—Continued.

Station.	Location.	Director.	Date of original organization.	Date of organization under Hatch Act.	Number on staff.	Number of teachers on staff.	Publications during fiscal year 1897-98.		Number of addresses on mailing list.	Principal lines of work.
							Number.	Pages.		
Massachusetts.....	Amherst.....	H. H. Goodell.....	1882	Mar. 2, 1888	22	7	20	352	16,000	Chemistry; meteorology; analysis and inspection of fertilizers and concentrated commercial feeding stuffs; field experiments; horticulture; diseases of plants; digestion and feeding experiments; diseases of animals; entomology.
Michigan.....	Agricultural College.	C. D. Smith.....		Feb. 26, 1888	19	11	17	474	28,000	Botany and bacteriology; field experiments; horticulture; forestry; diseases of plants; feeding experiments; diseases of animals; entomology; dairying.
Minnesota.....	St. Anthony Park, St. Paul.	W. M. Liggett.....	Mar. 7, 1885	1888	13	9	7	.....	6,384	Chemistry; field experiments; horticulture; forestry; plant diseases; food and nutrition of man; plant and animal breeding; feeding experiments; diseases of animals; entomology; dairying.
Mississippi.....	Agricultural College.	W. L. Hutchinson.....		Jan. 27, 1888	12	4	8	120	11,000	Chemistry; soils; field experiments; horticulture; feeding experiments; dairying.
Missouri.....	Columbia.....	H. J. Waters.....		Jan. —, 1888	13	6	6	171	12,000	Chemistry; field experiments; horticulture; diseases of plants; feeding experiments; diseases of animals; entomology; drainage.
Montana.....	Bozeman.....	S. M. Emery.....		July 1, 1893	7	7	2	.....	5,650	Field experiments; horticulture; diseases of plants; feeding experiments; diseases of animals; irrigation.
Nebraska.....	Lincoln.....	G. E. MacLean.....	Dec. 16, 1884	June 13, 1887	19	9	8	137	6,100	Chemistry; botany; meteorology; field experiments; horticulture; forestry; feeding and breeding experiments; diseases of animals; entomology; irrigation.
Nevada.....	Reno.....	J. E. Stubbs.....	May 1, 1888	Feb. 9, 1889	7	4	4	99	1,600	Chemistry; botany; soils; field experiments; horticulture; forestry; entomology; irrigation.

New Hampshire	Durham	1886	Aug. 4, 1887	11	7	8	132	9,000	Chemistry; field experiments; diseases of plants; feeding experiments; diseases of animals; entomology; dairying; road experiments.
New Jersey (State) ..	New Brunswick ..		Mar. 10, 1880	10	1	.....	.....	9,000	Chemistry; biology; botany; analyses of fertilizers and foods; poultry and field experiments; horticulture; diseases of plants; food and nutrition of man; diseases of animals; entomology; dairy husbandry; bacteria of milk; irrigation.
New Jersey (College) ..	.....do.....		Apr. 26, 1888	8	4	.....	474		
New Mexico	Mesilla Park		Dec. 14, 1889	15	4	4	144	2,850	Chemistry; botany; field experiments; horticulture; diseases of plants; entomology; irrigation.
New York (State)	Geneva		Mar. —, 1882	22	.....	20	1,242	31,000	Chemistry; meteorology; analysis of plants; horticulture; diseases of plants; feeding experiments; poultry experiments; dairying.
New York (Cornell) ..	Ithaca	1879	Apr. —, 1888	21	10	13	890	18,000	Chemistry of soils; feeding stuffs, and dairy products; soils; fertilizer investigations; field experiments; horticulture; diseases of plants; feeding sheep and swine; diseases of animals; poultry experiments; entomology; dairying.
North Carolina	Raleigh		Mar. 12, 1877	20	7	30	477	18,105	Chemistry; analysis and control of fertilizers; field experiments; horticulture; food adulteration; composition of feeding stuffs; digestion experiments; poultry experiments.
North Dakota	Agricultural College ..		Mar. —, 1890	12	9	6	203	2,600	Field experiments; horticulture; diseases of plants; feeding experiments; diseases of animals; dairying.
Ohio	Wooster		Apr. 2, 1888	15	.....	19	344	40,000	Soils; field experiments; horticulture; diseases of plants; breeding and feeding experiments; entomology.
Oklahoma	Stillwater		Dec. 25, 1890	11	8	6	105	13,000	Botany; soils; field experiments; horticulture; digestion and field experiments; entomology; irrigation.
Oregon	Corvallis		July —, 1888	11	9	9	188	3,755	Chemistry; soils; field crops; horticulture; diseases of plants; digestion and feeding experiments; entomology; dairying.

¹ In 1882 the State organized a station here and maintained it until June 18, 1895, when it became part of the Hatch Station at same place.

TABLE 8.—Stations and general statistics of the agricultural experiment stations in the United States, 1898—Continued.

Station.	Location.	Director.	Date of original organization.	Date of organization under Hatch Act.	Number of teachers on staff.	Number of publications during fiscal year 1897-98.	Publications		Number of addresses on mailing list.	Principal lines of work.
							Number.	Pages.		
Pennsylvania.....	State College.....	H. P. Armsby.....	.....	June 30, 1887	18	5	5	600	25, 000	Chemistry; meteorology; fertilizer analysis; field experiments; feeding experiments; dairying.
Rhode Island.....	Kingston.....	A. A. Brigham.....	.....	July 30, 1888	12	4	4	289	8, 000	Chemistry; meteorology; soils; field and pot experiments; horticulture; diseases of plants; poultry experiments; oyster culture.
South Carolina.....	Clemson College.....	H. S. Hartzog.....	.....	Jan. —, 1888	14	8	5	74	7, 000	Soils; analysis and control of fertilizers; field experiments; horticulture; dairying.
South Dakota.....	Brookings.....	J. H. Shepard.....	.....	Mar. 13, 1887	12	6	5	140	9, 000	Bacteriology; chemistry of soils and soil physics; field experiments; forestry; diseases of plants; feeding experiments; entomology; irrigation.
Tennessee.....	Knoxville.....	C. F. Vanderford.....	June 8, 1882	Aug. 4, 1887	10	5	3	166	6, 750	Chemistry; botany; field experiments; horticulture; entomology.
Texas.....	College Station.....	J. H. Connell.....	.....	Jan. 25, 1888	15	.....	6	194	5, 000	Chemistry; soils; fertilizers; field experiments; horticulture; feeding dairy cows; sheep husbandry; diseases of animals; paints; irrigation.
Utah.....	Logan.....	L. Foster.....	.....	1890	11	8	.....	320	3, 850	Chemistry; meteorology; soils; field experiments; horticulture; forestry; feeding experiments; poultry; dairying; irrigation.
Vermont.....	Burlington.....	J. L. Hills.....	Nov. 24, 1886	Feb. 28, 1888	13	6	7	348	8, 000	Chemistry; analysis and control of fertilizers; field experiments; horticulture; diseases of plants; feeding experiments; diseases of animals; dairying.
Virginia.....	Blacksburg.....	J. M. McBryde.....	1888	1891	11	7	8	74	14, 000	Chemistry; fertilizers; diseases of plants; diseases of animals; feeding experiments; entomology.
Washington.....	Pullman.....	E. A. Bryan.....	.....	1891	8	8	6	90	3, 000	Chemistry; soils; bacteriology; field experiments; horticulture; diseases of plants; feeding experiments; entomology.

West Virginia	Morgantown	J. H. Stewart	June 11, 1888	13	4	12	729	5,000	Chemistry; analysis and control of fertilizers; field experiments; horticulture; feeding experiments; poultry experiments; entomology. Chemistry; soils; field experiments; horticulture; feeding experiments; diseases of animals; dairying; drainage and irrigation. Geology; botany; meteorology; waters; soils; fertilizers; field experiments; food analysis; feeding experiments; entomology.
Wisconsin	Madison	W. A. Henry	1883	18	11	9	665	13,000	
Wyoming	Laramie	E. E. Smiley	1887 Mar. 1, 1891	8	6	5	342	2,500	
Total .....	.....	.....	.....	689	305	406	15,659	497,827	

TABLE 9.—*Revenue and additions to equipment of the agricultural experiment stations in 1898.*

Station.	Harch fund.	State.	Individ- uals and commu- nities.	Fees.	Farm products.	Miscel- laneous.	Total.	Additions to equipment in 1898.						
								Build- ings.	Library.	Appa- ratus.	Farm im- plements.	Live stock.	Miscel- laneous.	Total.
Alabama (College)	\$15,000.00	\$10,481.93			\$619.42	\$794.56	\$26,895.91	\$245.86	\$614.92	\$286.07	\$107.05	\$25.80	\$92.50	\$1,372.20
Alabama (Canebrake)		2,500.00			277.40		2,777.40							
Arizona	15,000.00			\$36.63	230.24	110.11	15,376.98	467.61	65.03	223.39	501.84	86.00	40.67	1,384.54
Arkansas	15,000.00				57.89		15,057.89	227.03	175.58	393.48	470.66	383.85		1,430.41
California	238,412.00				730.69		53,769.58	38.70	38.70	42.00	171.98	36.00	175.00	17,661.91
Colorado	15,000.00				730.69		17,669.58	128.12		343.41	101.06			783.56
Connecticut (State)	7,500.00	12,500.00		16,049.19		83.17	26,132.36		718.79	162.52		40.00		921.33
Connecticut (Storrs)	1,800.00					400.00	9,700.00		200.00					200.00
Delaware	15,000.00				1,050.18		15,063.00	94.65	497.48	360.47	40.29	33.00		1,025.89
Florida	15,000.00				1,080.24		16,050.18	800.00	331.36	45.80	61.09		23.80	1,262.05
Georgia	15,000.00	650.00			535.32		19,739.07		65.38	36.09	247.10		83.00	1,431.57
Illinois	15,000.00				1,550.00		15,535.32	736.00	67.32	119.03	283.93			1,220.50
Indiana	15,000.00	\$77.20		150.00	3,269.92		18,497.12	130.22	271.92	648.29	250.00	40.00		1,371.43
Iowa	15,000.00				1,789.11		16,789.11		128.37	88.47	234.83	186.38		1,927.41
Kansas	15,000.00			23.00	2,521.38		17,631.86	304.11	206.74	28.60	408.32	100.00		638.02
Kentucky	15,000.00				2,023.62		15,528.04	528.10	206.74	179.98	132.66	12.00		629.32
Louisiana	15,000.00			8,776.62	1,297.38		26,067.62	1,434.37	352.44	248.82	345.10	547.00		2,842.19
Maine	15,000.00	18,000.00		12,881.83	747.69		46,778.79		332.05	53.62	345.10	659.80		1,410.57
Massachusetts	15,000.00			4,300.00	1,300.00		20,600.00	1,000.00	180.00	200.00	225.00			1,605.00
Maryland	15,000.00						18,852.12	1,058.99	119.91	16.12	56.00	340.50	720.76	1,605.00
Michigan	15,000.00	11,200.00		3,278.75	1,763.86		32,925.79	500.00	435.88	415.47	108.05	1,214.50	147.19	2,812.09
Minnesota	15,000.00			1,380.00	267.04		19,400.78	750.00	220.84			124.11	148.68	1,557.78
Mississippi	15,000.00	11,086.57			5,013.06		31,099.63							
Missouri	15,000.00	\$284.68			1,203.63		16,530.60	373.00	50.00	100.00	200.00	475.00	300.00	1,498.60
Montana	15,000.00			282.50	1,974.14		18,768.27	591.25	130.00	380.95	673.18	838.72	90.95	2,095.97
Nebraska	15,000.00	409.70			1,976.22		17,385.92	2,726.22	66.34	356.59	275.00	115.00		4,553.88
Nevada	15,000.00				608.40		16,196.08	750.00	439.67	491.72	199.54	5,600.31	230.39	3,671.63
New Hampshire	15,000.00						15,621.44	249.10	52.01	287.14	243.20	590.00	547.76	1,969.21
New Jersey	15,000.00			627.00			15,627.00	741.13	401.45	621.18	310.64	32.60	279.62	2,386.62
New Jersey (State)		15,000.00					15,000.00	936.41	74.19	550.30		86.75		1,647.65
New Jersey (College)	15,000.00				127.20		15,000.00	184.50	992.64		60.29	230.80		1,816.48
New Mexico	15,000.00	10,000.00			2,221.18		25,326.03	10,750.00	50.00		9.85			11,509.85
New York (State)	1,500.00	109,000.00			1,824.60		112,721.18	37,500.00	1,375.00	5,500.00		500.00		44,875.00
New York (Cornell)	13,500.00	25,000.00			837.78		39,324.60		175.51	300.00		37.00		512.51
North Carolina	15,000.00	9,999.96			2,048.46		26,238.34	240.21	148.68	7.63	148.82	495.43		1,253.92
North Dakota	15,000.00				2,648.46		17,648.46							
Ohio	15,000.00	134,563.27			5,885.24		56,843.71	18,004.46	59.49	135.03	381.15	701.25		19,301.38
Oklahoma	15,000.00				11,306.95		16,836.95	200.00			125.00	500.00		1,025.00
Oregon	15,000.00				1,836.25		16,305.25	710.54	378.75	346.87	95.70	187.45		1,719.31
Pennsylvania	15,000.00			9,500.50	3,398.31		27,898.81	21.55	145.00	554.76	65.00	92.00		808.31
Rhode Island	15,000.00				1,106.78		18,084.99	503.58	533.60	79.50	111.06	25.00		1,571.84
Texas	15,000.00	774.83												

TABLE 10.—Expenditures of agricultural experiment stations from United States appropriation for year ending June 30, 1898.¹

Station.	Amount.	Itemized.																		
		Salaries.	Labor.	Publi- cations.	Post- age sta- tion- ery.	Freight and express.	Heat, light, and water.	Chem- ical and sup- plies.	Seeds, plants, and sundry sup- plies.	Fertil- izers.	Feed- ing stuffs.	Li- brary.	Tools, imple- ments, and ma- chinery.	Fur- niture and fix- tures.	Sci- entific ap- paratus.	Live stock.	Trav- eling ex- pen- ses.	Con- tin- gent ex- pen- ses.	Build- ing and re- pairs.	Bal- ance.
Alabama	\$15,000	\$9,150.00	\$1,095.50	\$933.38	\$91.79	\$426.37	\$180.01	\$469.97	\$704.75	\$350.62	\$99.35	\$614.92	\$107.05	\$92.50	\$286.07	\$25.80	\$89.06	\$10.00	\$245.86	
Arizona	15,000	5,762.44	4,369.97	766.13	282.43	234.39	348.00	267.98	147.02	264.27	211.32	165.03	501.84	170.18	223.39	86.00	599.55	40.67	559.39	
Arkansas	15,000	9,893.78	1,166.80	643.98	187.56	239.26	56.05	226.54	448.55	8.34	216.71	175.58	470.66	109.51	163.29	293.85	315.75	17.50	260.29	
California	15,000	6,470.96	4,254.24	160.40	285.06	213.75	177.00	579.83	454.93	100.00	556.35	38.70	278.67	202.50	42.00	565.60	23.50	596.51		
Colorado	15,000	9,601.82	2,223.28	1,206.45	77.50	24.75	1.25		259.41	104.02	76.53		101.06		343.41	36.00	806.40	10.00	128.12	
Connecticut (State)	7,500	7,500.00																		
Connecticut (Storrs)	7,500	3,918.36	1,246.50	27.23	262.95	68.43	282.10	140.05	288.71	130.83	266.42	45.52	21.45	127.50	255.94	16.90	360.27	10.00	31.84	
Delaware	15,000	10,125.72	1,335.77	944.87	205.03	148.79	359.52	90.40	163.81	12.39	9.67	497.48	40.29	33.89	360.47	33.00	331.29	102.96	94.65	
Florida	15,000	4,741.32	4,009.43	1,329.38	204.49	359.47	169.40	228.01	459.77	839.21	717.78	330.36	61.09	23.80	45.80	.....	692.74	105.03	660.99	\$1.93
Georgia	15,000	8,162.50	2,090.26	1,137.72	246.59	159.87	143.83	23.55	598.30	540.63	442.16	65.38	247.10	83.00	36.09	.....	258.61	14.41	750.00	
Idaho	15,000	5,139.49	4,617.16	806.25	323.80	177.31	333.92	88.32	872.74	.....	205.98	67.52	283.93	26.00	119.05	.....	426.40	382.13	750.00	
Illinois	15,000	7,209.93	3,268.42	840.90	103.39	189.51	120.00	51.00	424.64	.....	471.75	271.92	570.80	31.00	648.29	40.00	248.09	191.58	318.78	
Indiana	15,000	8,871.83	3,082.82	618.14	120.37	102.41	303.21	214.97	572.85	30.31	167.57	128.37	234.83	47.05	88.47	186.35	43.55	7.22	179.68	
Iowa	15,000	7,266.74	2,802.21	1,794.08	263.67	614.96	304.15	569.14	500.83	60	.....	7.74	408.32	9.00	28.60	.....	111.85	14.00	304.11	
Kansas	15,000	9,301.04	1,938.10	2,320.55	115.01	157.85	25.00	161.06	313.27	.....	5.60	206.74	132.66	3.00	248.82	12.00	80.75	10.25	29.10	
Kentucky	15,000	9,831.67	2,788.82	620.65	146.13	60.36	193.57	153.50	149.26	.....	352.44	332.02	345.10	.....	53.62	659.80	.....	83.85	209.63	
Louisiana	15,000	7,604.46	2,114.22	2,045.35	341.41	209.02	296.30	266.36	452.51	111.89	147.94	179.53	234.27	295.79	201.08	250.02	164.99	193.00	750.00	
Maine	15,000	7,887.45	1,301.27	380.02	430.63	253.70	742.60	590.04	517.59	172.32	455.70	179.53	596.96	129.80	16.12	160.50	66.43	10.00	476.26	
Maryland	15,000	8,188.84	3,114.90	610.02	120.83	154.29	242.09	85.52	410.02	168.99	328.52	119.91	250.00	105.19	228.36	901.00	220.00	80.65	439.15	
Massachusetts	15,000	4,443.00	3,605.56	2,885.54	235.56	335.49	130.17	.....	448.72	285.86	141.17	244.78	250.00	314.15	228.06	244.70	236.70	750.00		
Michigan	15,000	8,435.09	3,075.56	248.87	154.49	.....	451.76	129.98	15.14	367.65	209.59	.....	133.85	4.00	52.50	104.80	35.09	261.16	99.80	
Minnesota	15,000	10,196.60	1,572.15	271.00	192.04	4.23	86.03	203.09	290.28	.....	547.58	.....	133.85	4.00	52.50	104.80	35.09	261.16	99.80	
Mississippi	15,000	8,968.52	1,708.52	93.75	232.62	412.42	228.40	282.70	487.17	161.00	173.77	139.50	326.54	15.75	.....	249.08	395.97	.....	724.28	
Missouri	15,000	6,535.40	4,475.90	1,443.45	616.73	252.81	299.05	390.37	487.17	161.00	173.77	139.50	326.54	15.75	.....	249.08	395.97	.....	724.28	
Montana	15,000	6,894.86	3,127.52	1,404.00	158.05	206.50	284.42	531.25	414.46	.....	30.70	66.34	273.18	330.63	1,356.59	16.50	115.00	750.00		
Nebraska	15,000	7,625.93	1,652.91	844.06	229.72	211.45	17.53	103.71	242.24	.....	180.20	439.67	199.54	230.39	491.72	1,560.31	171.28	49.34	750.00	
Nevada	15,000	9,226.37	3,932.73	847.64	71.74	74.85	61.65	131.94	348.64	200.00	.....	52.01	87.10	271.30	155.10	90.00	136.10	21.10	280.12	11.51
New Hampshire	15,000	9,148.88	1,336.22	976.20	136.44	79.19	981.33	172.92	40.27	217.80	400.17	401.45	310.64	66.43	621.18	32.60	261.38	75.77	741.13	
New Jersey	15,000	9,830.00	826.82	1,152.89	275.61	73.67	201.60	115.76	57.90	70.00	.....	992.64	60.29	230.80	348.25	.....	429.42	143.85	184.50	
New Mexico	15,000	8,025.66	2,563.55	211.90	347.51	377.92	99.70	34.17	490.67	90.49	84.72	15.45	46.60	833.33	.....	220.00	795.45	540.58	422.30	
New York (State) New York (State) New York (Cor- nell)	1,500	62.50	1,147.61					49.89			26.00									
North Carolina	13,500	8,537.83	872.96	2,147.10	214.84	92.19	2.56	31.73	410.91	7.60	61.48	175.51	9.90	10.77	52.66	137.48	148.81	16.00	569.07	
North Dakota	15,000	9,039.96	1,151.11	1,437.61	669.63	161.40	6.00	379.86	98.72	7.44	1,028.17	145.49	130.66	89.92	3.63	486.45	118.90	.....	58.50	
South Dakota	15,000	8,423.02	2,637.89	758.95	192.49	170.82	236.97	133.68	331.51	.....	351.26	123.55	466.74	111.15	128.38	435.00	82.67	51.55	364.97	

Ohio.....	15,000	12,544.78	952.55	2.25	22.65	27.12	.....	353.72	23.63	.....	16.27	119.12	.....	3.10	180.50	.....	10.00	742.91	.....
Oklahoma.....	15,000	5,972.54	3,569.25	1,790.80	149.60	256.78	158.41	65.25	.....	462.63	.....	183.20	205.20	904.34	247.05	196.31	10.00	263.94	.93
Oregon.....	15,000	10,030.99	1,155.90	388.47	77.25	240.02	.....	372.51	.....	487.11	20.63	95.70	.....	206.87	187.45	471.38	27.35	710.54	.....
Pennsylvania.....	15,000	12,243.17	.....	677.73	121.33	.....	291.36	609.84	.....	30.95	43.49	2.84	.....	362.33	15.00	131.43	10.00	20.95	.....
Rhode Island.....	15,000	9,691.39	2,039.15	209.29	168.39	52.97	321.04	133.88	.....	321.73	195.23	41.57	95.33	92.00	25.00	306.65	13.00	635.80	.....
South Carolina.....	15,000	7,690.94	1,994.81	422.27	133.65	222.23	83.00	197.13	.....	626.40	200.66	187.42	102.28	120.92	274.80	280.55	35.90	688.92	.....
South Dakota.....	15,000	9,549.88	2,010.20	1,057.66	260.51	177.69	51.02	231.03	.....	308.10	70.50	182.61	110.15	872.93	.....	93.03	10.00	468.10	.....
Tennessee.....	15,000	8,766.15	1,403.73	1,356.85	330.55	291.52	57.26	297.22	.....	231.97	.....	105.78	100.00	201.98	35.00	90.93	146.70	346.65	.....
Texas.....	15,000	6,375.08	3,161.39	1,070.34	100.15	177.17	173.17	352.15	.....	182.25	.....	883.18	25.27	151.85	339.52	244.50	45.97	466.75	.....
Utah.....	15,000	7,159.35	2,625.39	1,397.93	429.02	129.35	277.34	303.13	.....	719.03	.....	602.82	220.60	264.31	240.67	28.20	.....	749.50	.....
Virginia.....	15,000	8,938.29	2,666.00	991.57	97.24	139.29	205.81	178.58	.....	206.23	.....	8.43	102.49	191.56	650.00	504.45	56.59	119.02	.....
Washington.....	15,000	7,479.11	3,197.61	435.14	176.35	287.32	906.95	300.91	.....	708.92	143.94	71.35	.....	165.27	82.06	157.25	10.00	118.62	.....
West Virginia.....	15,000	10,459.57	1,396.00	1,350.77	120.20	51.31	349.96	180.91	.....	102.53	.....	198.72	30.50	82.49	15.00	192.70	30.00	200.15	.....
Wisconsin.....	15,000	10,280.00	2,840.82	.....	9.00	.....	8.54	504.99	.....	118.90	13.00	89.72	.....	129.92	209.00	38.65	13.00	.....	.....
Wyoming.....	15,000	3,778.33	4,732.71	1,147.87	568.02	189.06	1,064.41	887.72	.....	337.33	.....	612.30	363.83	247.85	.....	531.92	21.25	750.00	.....

¹ The expenditures under different heads are affected by the total revenue of the station, as shown in Table 9.

TABLE 11.—Disbursements from the United States Treasury to the States and Territories for agricultural experiment stations under the act of Congress approved March 2, 1887.¹

State or Territory.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.
Alabama.....	\$11,250.00	\$18,750.00	\$14,999.34	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00
Arizona.....			10,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	14,816.71	14,987.09	14,999.35
Arkansas.....	11,250.00	18,750.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
California.....	11,250.00	18,750.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
Colorado.....	11,250.00	18,713.24	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
Connecticut.....	11,250.00	18,750.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
Dakota (Territory).....	11,250.00	18,750.00	15,000.00	11,250.00							
Delaware.....	11,250.00	18,188.84	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
Florida.....	11,250.00	18,750.00	14,998.05	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
Georgia.....	11,250.00	18,733.55	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
Idaho.....											
Illinois.....	11,250.00	18,750.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
Indiana.....	11,250.00	18,662.91	14,988.28	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	14,970.36
Iowa.....	11,250.00	18,750.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
Kansas.....	11,250.00	18,750.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
Kentucky.....	11,250.00	18,746.37	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
Louisiana.....	11,250.00	18,750.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
Maine.....	11,250.00	18,750.00	14,999.87	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
Maryland.....	11,250.00	18,725.28	14,998.65	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
Massachusetts.....	11,250.00	18,750.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
Michigan.....	11,250.00	18,750.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
Minnesota.....	11,250.00	18,750.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
Mississippi.....	11,250.00	18,750.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
Missouri.....	11,250.00	13,391.66	15,455.58	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
Montana.....											
Nebraska.....	11,250.00	18,750.00	15,000.00	14,999.87	15,000.00	14,951.08	15,000.00	15,000.00	14,981.21	15,000.00	15,000.00
Nevada.....	11,250.00	18,750.00	14,951.39	15,000.00	14,999.44	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
New Hampshire.....	11,250.00	18,750.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
New Jersey.....	11,250.00	18,711.97	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
New Mexico.....			10,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
New York.....	11,250.00	18,708.09	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	14,987.18	15,000.00	15,000.00
North Carolina.....	11,250.00	18,750.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
North Dakota.....			17,500.00	15,000.00	15,000.00	15,000.00	14,830.62	15,000.00	15,000.00	15,000.00	15,000.00
Ohio.....	11,250.00	18,750.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	14,701.00	15,000.00	15,000.00
Oklahoma.....											
Oregon.....	11,250.00	11,250.00	9,132.52	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	11,250.00	18,750.00
Pennsylvania.....	11,250.00	18,717.95	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
Rhode Island.....			30,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
South Carolina.....	11,250.00	18,750.00	15,000.00	15,000.00	14,542.15	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
South Dakota.....			8,750.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
Tennessee.....	11,250.00	18,750.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00
Texas.....	11,250.00	18,750.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00	15,000.00

